

Author Index

- Abbot, J.
Role of Brønsted and Lewis acid sites during cracking reactions of alkanes 33
- Anderson, J.R.
Methane to higher hydrocarbons - Review 177
- Angelov, S., see Terlecki-Baričević, A. 145
- Armstrong, R.S.
—, Bell, T., Chaffee, A.L., Chin, V.W.L., Loeh, H.J., Lucchese, A.B.J., Masters, A.F. and Williams, M.A.
Supported metal cluster compounds as precursors of Fischer-Tropsch catalysts 243
- Backhaus, K.O.
—, Burkhardt, I., Fichtner, H., Illgen, U., Richter-Mendau, J., Scheve, J. and Schulz, I.W.
Influence of the pretreatment of cracking catalysts activity and selectivity 135
- Barbier, J., see Dumas, J.M. L9
- Bates, A., see Martin, G.A. 287
- Behrsing, T.
—, Jaeger, H. and Mole, T.
Hydroisomerization of branched-chain alkenes over Pt/H-ZSM-5 zeolite 67
- Bell, T., see Armstrong, R.S. 243
- Beltramini, J.N., see Bickle, G.M. 59
- Bhaskar, G.V., see Bickle, G.M. 59
- Bickle, G.M.
—, Bhaskar, G.V., Do, D.D. and Beltramini, J.N.
Examination of the behaviour of Pt/Al₂O₃ and Pt-Re/Al₂O₃ reforming catalyst in the presence of ZSM-5 zeolite 59
- Bode, D., see Oelderik, J.M. 1
- Burkhardt, I., see Backhaus, K.O. 135
- Champbell, I., see Chaffee, A.L. 253
- Chaffee, A.L.
—, Campbell, I. and Valentine, N.
Sulfur poisoning of Fischer-Tropsch synthesis catalysts in a fixed-bed reactor 253
- Chaffee, A.L., see Armstrong, R.S. 243
- Chin, V.W.L., see Armstrong, R.S. 243
- Corma, A.
—, Faraldo, M. and Mifsud, A.
- Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Corma, A., see Fuentes, M. 367
- De Las Pozas, C., see Fuentes, M. 367
- Delmon, B., see Qiu, F.-Y. 115
- Do, D.D., see Bickle, G.M. 59
- Doi, T., see Matsuura, I. 299
- Ducarme, V., see Martin, G.A. 287
- Dumas, J.M.
—, Geron, C., Kribii, A. and Barbier, J.
Preparation of supported copper catalysts: Reduction of copper-alumina catalysts L9
- Fahim, M., see Marafi, M. 85
- Faraldo, M., see Corma, A. 125
- Fichtner, H., see Backhaus, K.O. 135
- Fuentes, M.
—, Magranes, J., De Las Pozas, C., Roque-Malherbe, R., Pérez Pariente, J. and Corma, A.
Cyclization of cinnonellal to isopulegol by zeolite catalysis 367
- Fujitani, Y., see Muraki, H. 75
- Gallezot, P., see Pitchon, V. 357
- Geron, C., see Dumas, J.M. L9
- Grabowska, H.
—, Kaczmarczyk, W. and Wrzyszcz, J.
Synthesis of 2,6-xylenol by alkylation of phenol with methanol 351
- Grbić, B., see Terlecki-Baričević, A. 145
- Halasz, I.
Selective oxidation and dehydrogenation of methanol on Y-Ba-Cu-O catalysts L17
- Harvey, T.G.
— and Pratt, K.C.
Hydrodenitrogenation using ternary metal catalysts on mixed zeolite- γ -alumina supports 335
- Hattori, H., see Suzuka, H. L7
- Hayasaka, T., see Uchiyama, S. 155
- Howe, R.F., see Wong, S.T. 229

- Illgen, U., see Backhaus, K.O. 135
- Inui, I., see Ishigaki, Y. 197
- Ishigaki, Y.
- , Uba, M., Nishida, S. and Inui, I. Application of Co-Mn₂O₃-Ru catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Itoh, H.
- , Tanabe, H. and Kikuchi, E. Novel catalyst for liquid phase Fischer-Tropsch synthesis: Potassium-promoted copper-iron ultrafine particles prepared by liquid-phase chemical deposition L1
- Jaeger, H., see Behrsing, T. 67
- Jovanovic, D., see Terlecki-Baričević, A. 145
- Kaczmarczyk, W., see Grabowska, H. 351
- Kaushik, V.K.
- and Ravindranathan, M. ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Kawata, N., see Uchiyama, S. 155
- Khan, A.Z., see Larkins, F.P. 209
- Kikuchi, E., see Itoh, H. L1
- Kirilov-Stefanov, P., see Terlecki-Baričević, A. 145
- Kribii, A., see Dumas, J.M. L9
- Kuwabara, M., see Ohtsuka, Y. 307
- Larkins, F.P.
- and Khan, A.Z. Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Loeh, H.J., see Armstrong, R.S. 243
- Lucchese, A.B.J., see Armstrong, R.S. 243
- Magraner, J., see Fuentes, M. 367
- Marafi, M.
- , Stanislaus, A., Mumford, C.J. and Fahim, M. Regeneration of spent hydroprocessing catalysts: Metals removal 85
- Marinova, C., see Terlecki-Baričević, A. 145
- Martin, G.A.
- , Bates, A., Ducarme, V. and Mirodatos, C. Oxidative conversion of methane and C₂ hydrocarbons on oxides: Homogeneous versus heterogeneous processes 287
- Masai, M., see Nishiyama, S. 25
- Masters, A.F., see Armstrong, R.S. 343
- Mathews, J.F., see Thompson, S.C. 45
- Matsuura, I.
- , Utsumi, Y., Doi, T. and Yoshida, Y. Oxidative coupling of methane over lithium-doped ultrafine crystalline magnesium oxide 299
- Mehandziev, D., see Terlecki-Baričević, A. 145
- Mifsud, A., see Corma, A. 125
- Milestone, N.B., see Wong, S.T. 229
- Mirodatos, C., see Martin, G.A. 287
- Moffat, J.B., see Nayak, V.S. 97
- Mole, T., see Behrsing, T. 67
- Mumford, C.J., see Marafi, M. 85
- Muraki, H.
- , and Fujitani, Y. Steam reforming of n-heptane using a Rh/MgAl₂O₄ catalyst 75
- Nakayama, H., see Nishiyama, S. 25
- Nayak, V.S.
- and Moffat, J.B. Catalytic activity and product distribution in the cracking of n-hexane over heteropoly oxometalates and ZSM-5 zeolite 97
- Nicot, P., see Pitchon, V. 357
- Nishida, S., see Ishigaki, Y. 197
- Nishiyama, S.
- , Yanagi, H., Nakayama, H., Tsuruya, S. and M. Masai The role of tin in supported rhodium-tin bimetallic catalysts 25
- Obayashi, Y., see Uchiyama, S. 155
- Oelderik, J.M.
- , Sie, S.T. and Bode, D. Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology - review 1
- Ohtsuka, Y.
- , Kuwabara, M. and Tomita, A. Selective oxidative coupling of methane to ethylene with molten oxides containing alkali metal chloride 307
- Pérez Pariente, J., see Fuentes, M. 367
- Pitchon, V.
- , Gallezot, P., Nicot, C. and Praliaud, H.

- Study by analytical electron microscopy of the potassium distribution on silica-supported nickel and palladium catalysts 357
- Praliaud, H., see Pitchon, V. 357
- Pratt, K.C., see Harvey, T.G. 335
- Qiu, F.-Y.
- , Weng, L.-T., Ruiz, P. and Delmon, B. Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene 115
- Ravindranathan, M., see Kaushik, V. 343
- Richter-Mendau, J., see Backhaus, K.O. 135
- Roque-Malherbe, R., see Fuentes, M. 367
- Ruiz, P., see Qiu, F.-Y. 115
- Scheve, J., see Backhaus, K.O. 135
- Schulz, I.W., see Backhaus, K.O. 135
- Sie, S.T., see Oelderik, J.M. 1
- Stanislaus, A., see Marafi, M. 85
- Suzuka, H.
- and Hattori, H. Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide L7
- Tanabe, H., see Itoh, H. 1
- Terlecki-Baričević, A.
- , Grbić, B., Jovanovic, D., Angelov, S., Mehandžiev, D., Marinova, C. and Kirilov-Stefanov, P. Activity and sulphur tolerance of monophase spinels in carbon monoxide and C_xH_y oxidation 145
- Thompson, S.C.
- and Mathews, J.F. Characterization of hydro-cracking catalysts by acidity measurement 45
- Tomita, A., see Ohtsuka, Y. 307
- Tronconi, E.
- , Lietti, L., Forzatti, P. and Pasquon, I. Higher alcohol synthesis over alkali metal promoted high-temperature methanol catalysts 313
- Tsuruya, S., see Nishiyama, S. 25
- Uba, M., see Ishigaki, Y. 197
- Uchiyama, S.
- , Obayashi, Y., Hayasaka, T. and Kawata, N. Characterization of coprecipitated nickel catalysts: Comparison of NiO/SiO_2 and NiO/TiO_2 catalysts 155
- Utsumi, Y., see Matsuura, I. 299
- Valentine, N., see Chaffee, A.L. 253
- Wada, S.
- , Tagawa, T. and Imai, H. Kinetics and mechanism of oxidative coupling of methane over lanthanum-boron oxide 277
- Weng, L.-T. see Qiu, F.-Y. 115
- Williams, M.A., see Armstrong, R.S. 243
- Wong, S.T.
- , Howe, R.F. and Milestone, N.B. Carbon monoxide hydrogenation over metal loaded aluminophosphate 229
- Wrzyszcz, J., see Grabowska, H. 351
- Yanagi, H., see Nishiyama, S. 25
- Yoshida, Y., see Matsuura, I. 299

Subject Index

- Acrylamide synthesis
ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Acrylonitrile hydration
ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Adsorption
The role of tin in supported rhodium-tin bimetallic catalysts 25
- Adsorption
Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Ageing
Regeneration of spent hydroprocessing catalysts: Metals removal 85
- Ageing
Activity and sulphur tolerance of monophase spinels in carbon monoxide and C_xH_y oxidation 145
- Alkane cracking
Role of Brønsted and Lewis acid sites during cracking reactions of alkanes 33
- Alkene hydrogenation
Hydroisomerization of branched-chain alkenes over Pt/H-ZSM-5 zeolite 67
- Aluminophosphates
Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Amine titration
Characterization of hydro-cracking catalysts by acidity measurements 45
- Antimony (IV) oxide
Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene 115
- Barium
Selective oxidation and dehydrogenation of methanol on Y-Ba-Cu-O catalysts L17
- Bismuth phosphate
Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the cat- alytic properties of compound oxide cata- lysts in the oxidative dehydrogenation of n-butene 115
- Bismuth oxide-molybdenum oxide-lithium chloride
Selective oxidative coupling of methane to ethylene with molten oxides containing alkali metal chloride 307
- Brønsted acid
Role of Brønsted and Lewis acid sites during cracking reactions of alkanes 33
- Bunker-flow reactor
Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology 1
- Butadiene cyclodimerization
Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide L7
- Butene dehydrogenation
Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene 115
- Carbon monoxide hydrogenation
Novel catalyst for liquid phase Fischer-Tropsch synthesis: Potassium-promoted copper-iron ultrafine particles prepared by liquid-phase chemical deposition L1
- Carbon monoxide hydrogenation
Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Carbon monoxide oxidation
Activity and sulphur tolerance of monophase spinels in carbon monoxide and C_xH_y oxidation 145
- Catalyst characterization (adsorption)
Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Catalyst characterization (analytical electron microscopy)
Study by analytical electron microscopy of the potassium distribution on silica-sup-

- ported nickel and palladium catalysts 357
- Catalyst characterization (ESCA)**
- ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Catalyst characterization (IR, XRD)**
- Supported metal cluster compounds as precursors of Fischer-Tropsch catalysts 243
- Catalyst characterization (IR, XRD)**
- Higher alcohol synthesis over alkali metal-promoted high-temperature methanol catalysts 317
- Catalyst characterization (TEM, spectroscopic techniques)**
- Characterization of coprecipitated nickel catalysts: Comparison of NiO/SiO_2 and NiO/TiO_2 catalysts 155
- Catalyst characterization (temperature-programmed techniques)**
- Preparation of supported copper catalysts: Reduction of copper/alumina catalysts L9
- Catalyst characterization (temperature-programmed techniques)**
- Characterization of hydro-cracking catalysts by acidity measurements 45
- Catalyst characterization (XPS)**
- The role of tin in supported rhodium-tin bimetallic catalysts 25
- Catalyst characterization (XPS)**
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Catalyst characterization (XRD)**
- Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene 115
- Catalyst characterization (XRD, AAS, temperature-programmed techniques)**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Catalyst preparation (adsorption)**
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Catalyst preparation (citric acid method)**
- Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene 115
- Catalyst preparation (co-precipitation)**
- Synthesis of 2,6-xylenol by alkylation of phenol with methanol 351
- Catalyst preparation (deposition)**
- Novel catalyst for liquid phase Fischer-Tropsch synthesis: Potassium-promoted copper-iron ultrafine particles prepared by liquid-phase chemical deposition L1
- Catalyst preparation (evaporation)**
- Oxidative coupling of methane over lithium-doped ultrafine crystalline magnesium oxide 299
- Catalyst preparation (evaporation)**
- Study by analytical electron microscopy of the potassium distribution on silica-supported nickel and palladium catalysts 353
- Catalyst preparation (ion exchange, wet impregnation)**
- Hydrodenitrogenation using ternary metal catalyst on mixed zeolite- γ -alumina supports 335
- Catalyst preparation (reduction)**
- ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Catalyst preparation (wet impregnation)**
- Preparation of supported copper catalysts: Reduction of copper/alumina catalysts L9
- Catalyst preparation (wet impregnation)**
- Steam reforming of n-heptane using a Rh/ MgAl_2O_4 catalyst 75
- Catalyst preparation (wet impregnation)**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Citronellal cyclization**
- Cyclization of citronellal to isopulegol by zeolite catalysis 367
- Clinoptilolite**
- Cyclization of citronellal to isopulegol by zeolite catalysis 367
- Cobalt/AlPO₄**
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Cobalt-manganese oxide-ruthenium**
- Application of Co-Mn₂O₃-Ru catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Cobalt-molybdenum**
- Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years

- of R&D on Shell's residue hydroconversion technology 1
- Cobalt-molybdenum/alumina**
- Regeneration of spent hydroprocessing catalysts: Metals removal 85
- Coke formation**
- Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology 1
- Coke oven gas**
- Application of $\text{Co}-\text{Mn}_2\text{O}_3-\text{Ru}$ catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Copper**
- Selective oxidation and dehydrogenation of methanol on $\text{Y}-\text{Ba}-\text{Cu}-\text{O}$ catalysts L17
- Copper**
- ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Copper/alumina**
- Preparation of supported copper catalysts: Reduction of copper/alumina catalysts L9
- Copper-iron**
- Novel catalyst for liquid phase Fischer-Tropsch synthesis: Potassium-promoted copper-iron ultrafine particles prepared by liquid-phase chemical deposition L1
- Cracking**
- Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Cracking**
- Influence of the pretreatment of cracking catalysts activity and selectivity 135
- Demetallization**
- Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology 1
- Desulphurization**
- Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology 1
- Diels-Alder reaction**
- Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide L7
- Ethane conversion**
- Oxidative conversion of methane and C_2 hydrocarbons on oxides: Homogeneous versus heterogeneous processes 287
- Ethane synthesis**
- Kinetics and mechanism of oxidative coupling of methane over Lanthanum-boron oxide 277
- Ethene conversion**
- Oxidative conversion of methane and C_2 hydrocarbons on oxides: Homogeneous versus heterogeneous processes 287
- Faujasite**
- Cyclization of citronellal to isopulegol by zeolite catalysis 367
- Fischer-Tropsch reaction**
- Methane to higher hydrocarbons - review 177
- Fischer-Tropsch reaction**
- Application of $\text{Co}-\text{Mn}_2\text{O}_3-\text{Ru}$ catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Fischer-Tropsch reaction**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Fischer-Tropsch reaction**
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Fischer-Tropsch reaction**
- Supported metal cluster compounds as precursors of Fischer-Tropsch catalysts 243
- Fischer-Tropsch reaction**
- Sulfur poisoning of Fischer-Tropsch synthesis catalysts in a fixed-bed reactor 253
- Fischer-Tropsch reaction**
- Novel catalyst for liquid phase Fischer-Tropsch synthesis: Potassium-promoted copper-iron ultrafine particles prepared by liquid-phase chemical deposition L1
- Fixed-bed reactor**
- Sulfur poisoning of Fischer-Tropsch synthesis catalysts in a fixed-bed reactor 253
- Haematite**
- Synthesis of 2,6-xylenol by alkylation of phenol with methanol 351
- Heptane reforming**

- Steam reforming of n-heptane using a Rh/
MgAl₂O₄ catalyst 75
- Heteropoly oxometalates**
- Catalytic activity and product distribution in the cracking of n-hexane over heteropoly oxometalates and ZSM-5 zeolite 97
- Hexane cracking**
- Catalytic activity and product distribution in the cracking of n-hexane over heteropoly oxometalates and ZSM-5 zeolite 97
- Higher alcohol synthesis**
- Higher alcohol synthesis over alkali metal-promoted high-temperature methanol catalysts 317
- Hydration**
- ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide 343
- Hydrocracking catalysts**
- Characterization of hydro-cracking catalysts by acidity measurements 45
- Hydrodenitrogenation**
- Hydrodenitrogenation using ternary metal catalyst on mixed zeolite- γ -alumina supports 335
- Hydrogen transfer**
- Influence of the level of dealumination of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Hydroisomerization**
- Hydroisomerization of branched-chain alkenes over Pt/H-ZSM-5 zeolite 67
- Hydrotreating catalysts**
- Regeneration of spent hydroprocessing catalysts: Metals removal 85
- Iron**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Iron-cobalt/silica**
- Supported metal cluster compounds as precursors of Fischer-Tropsch catalysts 243
- Iron/AlPO₄**
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Isopulegol synthesis**
- Cyclization of citronellal to isopulegol by zeolite catalysis 367
- Isotope exchange**
- The role of tin in supported rhodium-tin bimetallic catalysts 25
- Kinetics**
- Role of Brønsted and Lewis acid sites during cracking reactions of alkanes 33
- Kinetics**
- Steam reforming of n-heptane using a Rh/
MgAl₂O₄ catalyst 75
- Kinetics**
- Regeneration of spent hydroprocessing catalysts: Metals removal 85
- Kinetics**
- Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Kinetics**
- Activity and sulphur tolerance of mono-phase spinels in carbon monoxide and C_xH_y oxidation 145
- Kinetics**
- Kinetics and mechanism of oxidative coupling of methane over lanthanum-boron oxide 277
- Kölbel-Engelhardt synthesis**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Lanthanum-boron oxide**
- Kinetics and mechanism of oxidative coupling of methane over lanthanum-boron oxide 277
- Lewis acid**
- Role of Brønsted and Lewis acid sites during cracking reactions of alkanes 33
- Lithium-magnesium oxide**
- Oxidative conversion of methane and C₂ hydrocarbons on oxides: Homogeneous versus heterogeneous processes 287
- Lithium-magnesium oxide**
- Oxidative coupling of methane over lithium-doped ultrafine crystalline magnesium oxide 299
- Magnesium oxide**
- Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide L7
- Manganese-chromium oxide spinel**

- Higher alcohols synthesis over alkali metal-promoted high-temperature methanol catalysts 317
- Metal deposition
- Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology 1
- Methane chlorination
- Methane to higher hydrocarbons - review 177
- Methane conversion
- Oxidative conversion of methane and C₂ hydrocarbons on oxides: Homogeneous versus heterogeneous processes 287
- Methane oxidative coupling
- Kinetics and mechanism of oxidative coupling of methane over lanthanum-boron oxide 277
- Methane oxidative coupling
- Oxidative coupling of methane over lithium-doped ultrafine crystalline magnesium oxide 299
- Methane oxidative coupling
- Selective oxidative coupling of methane to ethylene with molten oxides containing alkali metal chloride 307
- Methane sulphidation
- Methane to higher hydrocarbons - review 177
- Methane synthesis
- Application of Co-Mn₂O₃-Ru catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Methane synthesis
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Methane synthesis
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Methane synthesis
- Supported metal cluster compounds as precursors of Fischer-Tropsch catalysts 243
- Methane synthesis
- Sulfur poisoning of Fischer-Tropsch synthesis catalysts in a fixed-bed reactor 253
- Methanol dehydrogenation
- Selective oxidation and dehydrogenation of methanol on Y-Ba-Cu-O catalysts L17
- Methylene blue adsorption
- Characterization of hydro-cracking cata-
- lysts by acidity measurements 45
- Molten oxides
- Selective oxidative coupling of methane to ethylene with molten oxides containing alkali metal chloride 307
- Molybdenum/AlPO₄
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Mordenite
- Cyclization of citronellal to isopulegol by zeolite catalysis 367
- Nickel oxide/silica
- Characterization of coprecipitated nickel catalysis: Comparison of NiO/SiO₂ and NiO/TiO₂ catalysts 155
- Nickel oxide/titania
- Characterization of coprecipitated nickel catalysis: Comparison of NiO/SiO₂ and NiO/TiO₂ catalysts 155
- Nickel-molybdenum
- Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology 1
- Nickel-molybdenum
- Hydrodenitrogenation using ternary metal catalyst on mixed zeolite- γ -alumina supports 335
- Nickel/silica
- Study by analytical electron microscopy of the potassium distribution on silica-supported nickel and palladium catalysts 357
- Oxidative conversion
- Oxidative conversion of methane and C₂ hydrocarbons on oxides: Homogeneous versus heterogeneous processes 287
- Oxidative coupling
- Kinetics and mechanism of oxidative coupling of methane over lanthanum-boron oxide 277
- Oxidative coupling
- Oxidative coupling of methane over lithium-doped ultrafine crystalline magnesium oxide 299
- Oxidative coupling
- Selective oxidative coupling of methane to ethylene with molten oxides containing alkali metal chloride 307
- Oxidizing agents

Methane to higher hydrocarbons - review	177	Steam reforming of n-heptane using a Rh/MgAl ₂ O ₄ catalyst	75
Oxygen isotope exchange		Selectivity (2,6-xylenol)	
The role in tin in supported rhodium-tin bimetallic catalysts	25	Synthesis of 2,6-xylenol by alkylation of phenol with methanol	351
Palladium/silica		Selectivity (acrylamide)	
Study by analytical electron microscopy of the potassium distribution on silica-supported nickel and palladium catalysts	357	ESCA study of copper catalysts used for the hydration of acrylonitrile to acrylamide	343
Partial oxidation		Selectivity (aromatics)	
Methane to higher hydrocarbons - review	177	Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide	L7
Phenol alkylation		Selectivity (butadiene)	
Synthesis of 2,6-xylenol by alkylation of phenol with methanol	351	Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene	115
Platinum-rhenium/alumina		Selectivity (C ₂ hydrocarbons)	
Examination of the behaviour of Pt/Al ₂ O ₃ and Pt-Re/Al ₂ O ₃ reforming catalyst in the presence of ZSM-5 zeolite	59	Oxidative coupling of methane over lithium-doped ultrafine crystalline magnesium oxide	299
Platinum/alumina		Selectivity (ethene)	
Examination of the behaviour of Pt/Al ₂ O ₃ and Pt-Re/Al ₂ O ₃ reforming catalyst in the presence of ZSM-5 zeolite	59	Selective oxidative coupling of methane to ethylene with molten oxides containing alkali metal chloride	307
Pretreatment		Selectivity (high-octane number hydrocarbons)	
Influence of the pretreatment of cracking catalysts activity and selectivity	135	Examination of the behaviour of Pt/Al ₂ O ₃ and Pt-Re/Al ₂ O ₃ reforming catalyst in the presence of ZSM-5 zeolite	59
Propene oxidation		Selectivity (hydrocarbons)	
Activity and sulphur tolerance of monophase spinels in carbon monoxide and C _x H _y oxidation	145	Catalytic activity and product distribution in the cracking of n-hexane over heteropoly oxometalates and ZSM-5 zeolite	97
Reducing agents		Selectivity (hydrocarbons)	
Methane to higher hydrocarbons - review	177	Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites	125
Reforming		Selectivity (hydrocarbons)	
Examination of the behaviour of Pt/Al ₂ O ₃ and Pt-Re/Al ₂ O ₃ reforming catalyst in the presence of ZSM-5 zeolite	59	Influence of the pretreatment of cracking catalysts activity and selectivity	135
Regeneration		Selectivity (hydrocarbons)	
Progress in the catalysis of the upgrading of petroleum residue: A review of 25 years of R&D on Shell's residue hydroconversion technology	1	Methane to higher hydrocarbons - review	177
Regeneration		Selectivity (isopulegol)	
Regeneration of spent hydroprocessing catalysts: Metals removal	85		
Rhodium-tin/silica			
The role of tin in supported rhodium-tin bimetallic catalysts	25		
Rhodium/magnesia-alumina			

- Cyclization of citronellal to isopulegol by zeolite catalysis 367
- Selectivity (methane)**
- Application of Co-Mn₂O₃-Ru catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Selectivity (methane)**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Selectivity (methane)**
- Carbon monoxide hydrogenation over metal loaded aluminophosphates 229
- Selectivity (methane)**
- Supported metal cluster compounds as precursors of Fischer-Tropsch catalysts 243
- Shape-selective hydroisomerization**
- Hydroisomerization of branched-chain alkenes over Pt/H-ZSM-5 zeolite 67
- Solid base**
- Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide L7
- Steam reforming**
- Steam reforming of n-heptane using a Rh/MgAl₂O₄ catalyst 75
- Substitute natural gas**
- Application of Co-Mn₂O₃-Ru catalyst to the process for producing high-calorie substitute natural gas from coke oven gas 197
- Sulphur poisoning**
- Sulfur poisoning of Fischer-Tropsch synthesis catalysts in a fixed-bed reactor 253
- Sulphur tolerance**
- Activity and sulphur tolerance of monophase spinels in carbon monoxide and C_xH_y oxidation 145
- Synergism**
- Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide catalysts in the oxidative dehydrogenation of n-butene 115
- Syngas conversion**
- Higher alcohol synthesis over alkali metal-promoted high-temperature methanol catalysts 317
- Tin (IV) oxide**
- Effect of antimony (IV) oxide, bismuth phosphate and tin (IV) oxide on the catalytic properties of compound oxide cata-
- lysts in the oxidative dehydrogenation of n-butene 115
- Ultrafine particles**
- Novel catalyst for liquid phase Fischer-Tropsch synthesis: Potassium-promoted copper-iron ultrafine particles prepared by liquid-phase chemical deposition L1
- Water-gas shift reaction**
- Investigation of Kölbel-Engelhardt synthesis over iron-based catalysts 209
- Xylenol synthesis**
- Synthesis of 2,6-xylenol by alkylation of phenol with methanol 351
- Yttrium**
- Selective oxidation and dehydrogenation of methanol on Y-Ba-Cu-O catalysts L17
- Zeolites**
- Role of Brønsted and Lewis acid sites during cracking reactions of alkanes 33
- Zeolites**
- Examination of the behaviour of Pt/Al₂O₃ and Pt-Re/Al₂O₃ reforming catalyst in the presence of ZSM-5 zeolite 59
- Zeolites**
- Hydroisomerization of branched-chain alkenes over Pt/H-ZSM-5 zeolite 67
- Zeolites**
- Catalytic activity and product distribution in the cracking of n-hexane over heteropoly oxometalates and ZSM-5 zeolite 97
- Zeolites**
- Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites 125
- Zeolites**
- Influence of the pretreatment of cracking catalysts activity and selectivity 135
- Zeolites**
- Hydrodenitrogenation using ternary metal catalyst on mixed zeolite- γ -alumina supports 335
- Zeolites**
- Cyclization of citronellal to isopulegol by zeolite catalysis 367

Zinc-chromium oxide spinel

Higher alcohol synthesis over alkali metal-promoted high-temperature methanol catalysts 317

Zirconium oxide

Dehydrocyclodimerization of 1,3-butadiene catalyzed by magnesium oxide and zirconium oxide L7